

RFE-FRHF Fire-resistant armoured pair instrumentation and communication cable 250V



DESIGN:

- 1. Conductor**
 - stranded copper conductor IEC 60228, class 2
 - tinned stranded copper conductor on request
- 2. Insulation**
 - Mica tape
 - XLPE plastic IEC 60092-360
- 3. Twisted pair**
 - two insulated cores twisted together to form a pair
 - See next page for Quad
- 4. Bedding**
 - filler tape
- 5. Armour**
 - drain wire (in all sizes)
 - copper wire braid, coverage > 94% IEC 60092-350
 - tinned copper wire braid on request
 - the armour serves as a collective screen
- 6. Sheath**
 - polyolefine plastic, SHF1, standard colour orange IEC 60092-360
 - on request thermosetting polyolefine, SHF2, standard colour black
 - other colours on request

STANDARDS:
IEC 60092-376, design

Flame-retardant ●
Fire-resistant ●
Halogen-free ●
Low smoke emission ●
Oil resistant (only SHF2) ●

Application: For fixed installation in most areas and on open deck in ships and offshore units. If the cable is exposed to direct sun light protective covering or cable with black outer sheath is recommended.

Main characteristics

Rated voltage	150/250V (300V)
Maximum conductor temperature	+ 90 °C
Flame-retardant	IEC 60332-1-2 -test for single insulated wire and cable IEC 60332-3-22 -test for bunched wires and cables, category A
Fire-resistant	IEC 60331-1 or IEC 60331-2
Halogen-free	IEC 60754 series
Smoke emission	IEC 61034 series
Oil resistance (only SHF2)	IEC 60811-404 conditions according to 60092-360/SHF2

Electrical data

	0,75mm²	1,5mm²	Unit
Loop resistance of pair, max. / +20°C	52	24,4	ohm/km
Pair capacitance, nom. / 800Hz	45	55	nF/km
Loop inductance, nom.	0,6	0,7	mH/km
Insulation resistance / +20°C	≥1500	≥1500	Mohm/km

Minimum recommended installation temperature -15 °C

Lowest operation temperature -40 °C

Identification: Lot number, cable type, cable size, voltage, temperature, standards, manufacturer's name, production month and meter marking printed on the sheath



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RFE-FRHF 250V	Number of conductors & cross-section n x mm ²	Nominal outer diameter mm	Approximate weight kg/km	Min. bending radius fixed installation mm
Part number				
20520	1x2x0,75	9,0	115	55
20522	2x2x0,75 Quad	11,0	170	65
20524	2x2x0,75	14,0	200	85
20526	4x2x0,75	16,0	285	95
20528	7x2x0,75	19,5	445	115
20530	8x2x0,75	21,0	495	125
20532	10x2x0,75	24,0	615	145
20534	12x2x0,75	25,0	685	150
20536	14x2x0,75	26,5	765	160
20538	19x2x0,75	30,5	970	180
20540	24x2x0,75	34,0	1205	205
20542	32x2x0,75	38,5	1520	230
20543	37x2x0,75	41,0	1700	245
20575	1x2x1,5	10,5	155	65
20577	2x2x1,5 Quad	12,0	220	70
20579	2x2x1,5	16,0	300	95
20574	3x2x1,5	17,0	355	100
20581	4x2x1,5	18,5	425	110
20583	7x2x1,5	22,5	650	135
20585	8x2x1,5	24,0	715	145
20587	10x2x1,5	27,0	875	160
20589	12x2x1,5	28,5	1000	170
20591	14x2x1,5	30,5	1125	180
20593	16x2x1,5	32,5	1280	195
20595	19x2x1,5	35,0	1460	210
20597	24x2x1,5	39,0	1795	235
20599	32x2x1,5	44,5	2410	270
20601	37x2x1,5	47,5	2730	285

Other sizes on request.

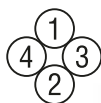
Part number for oil resistant SHF2 cable:
4 + code from above table → 4xxxxx

Core identification

Each pair white - blue. Cores numbered 1, 2, 3, 4, 5....

(Quad)cable is built up as a star quad with the following identification

1 core white
2 core blue
3 core white
4 core blue



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